

Nama : Rizky Tri Setya W

NIM : L200170054

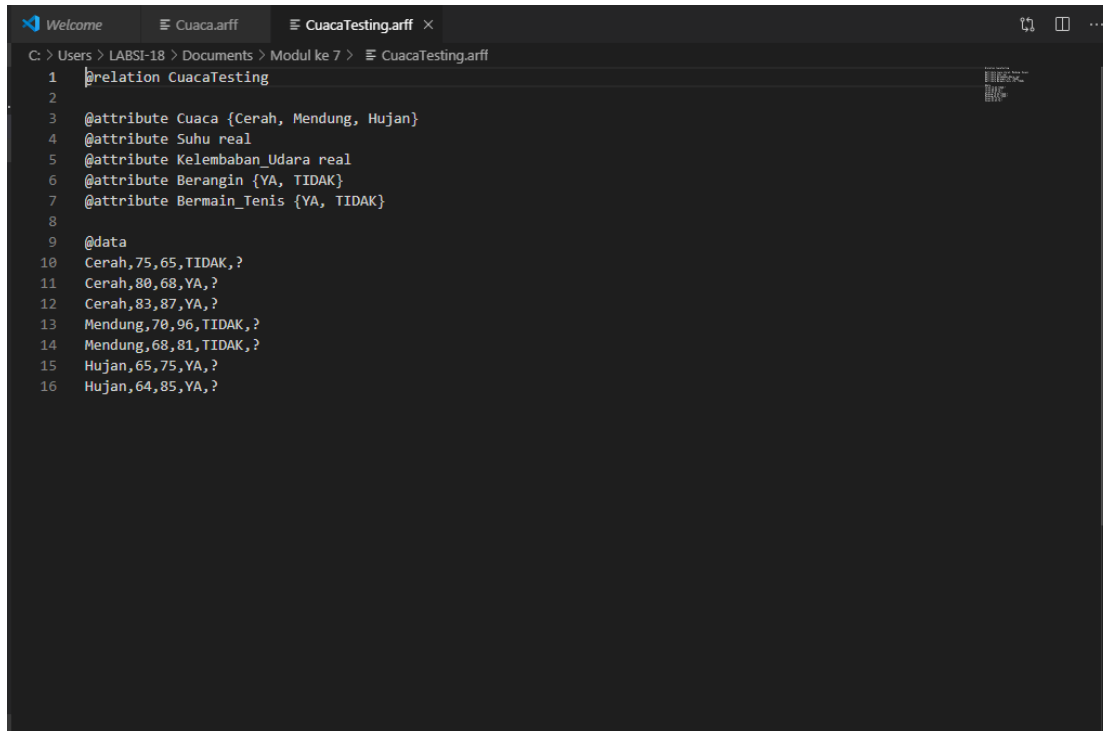
Kelas : C

MODUL 8

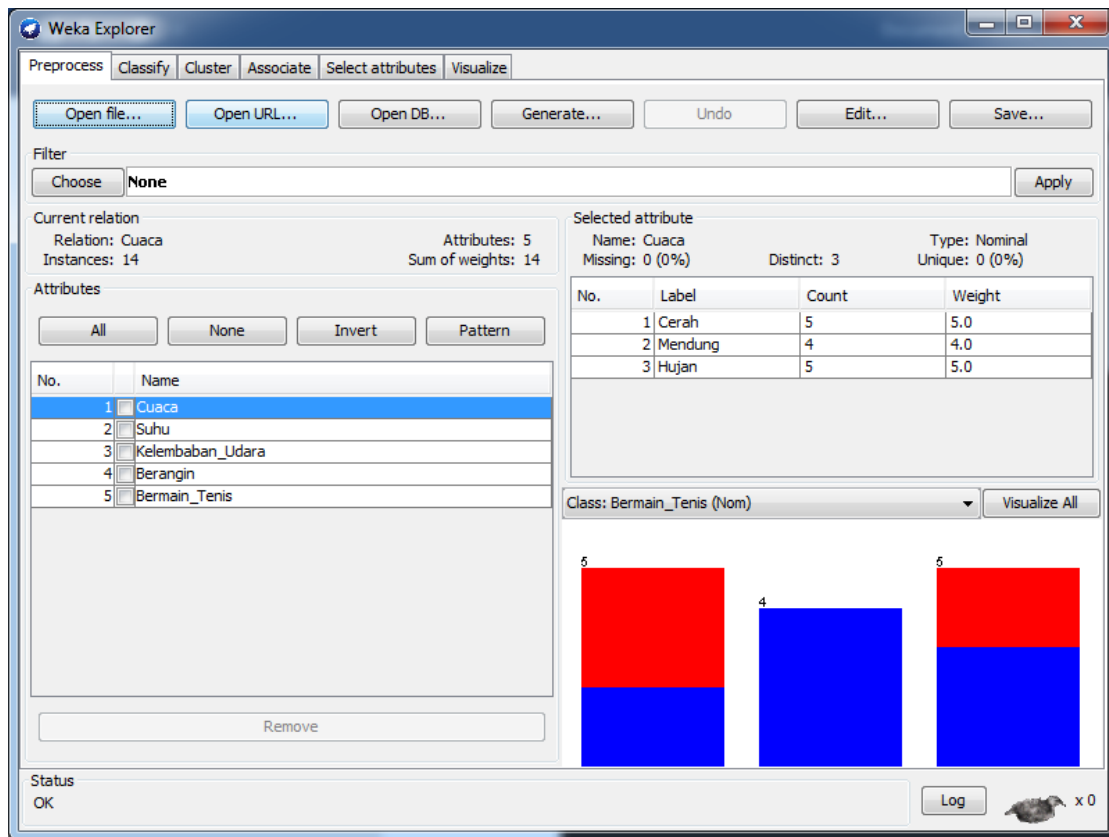
KLASIFIKASI : NAÏVE BAYES

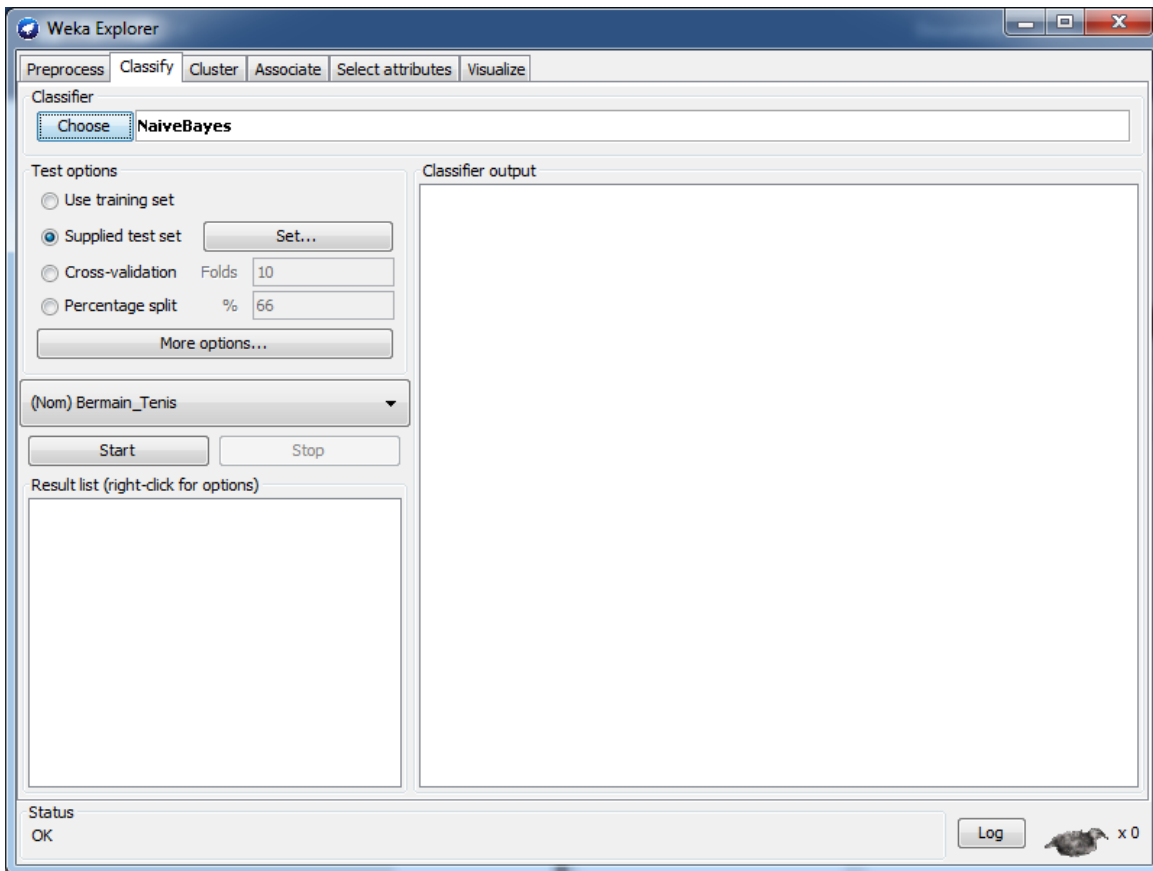
8.4. Langkah-langkah Praktikum

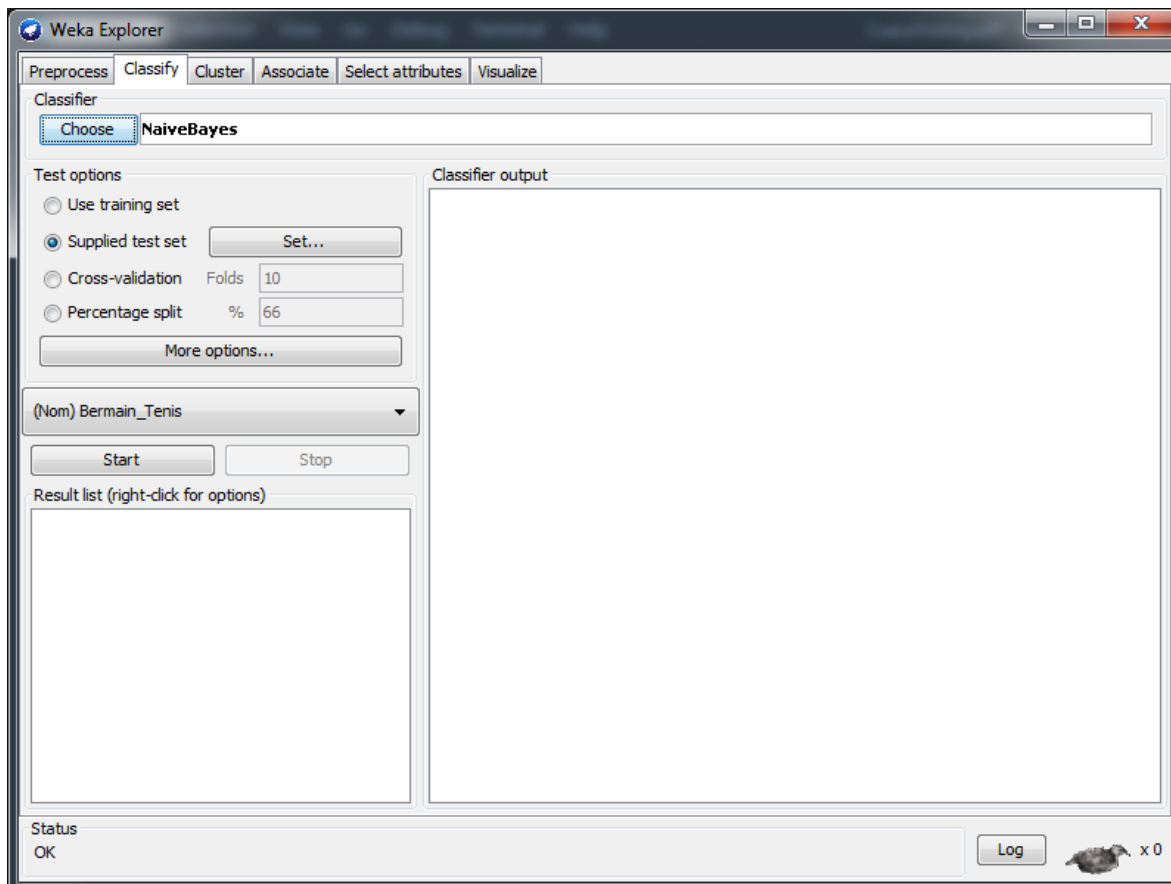
8.4.1 Implementasi Naïve Bayes dengan Weka

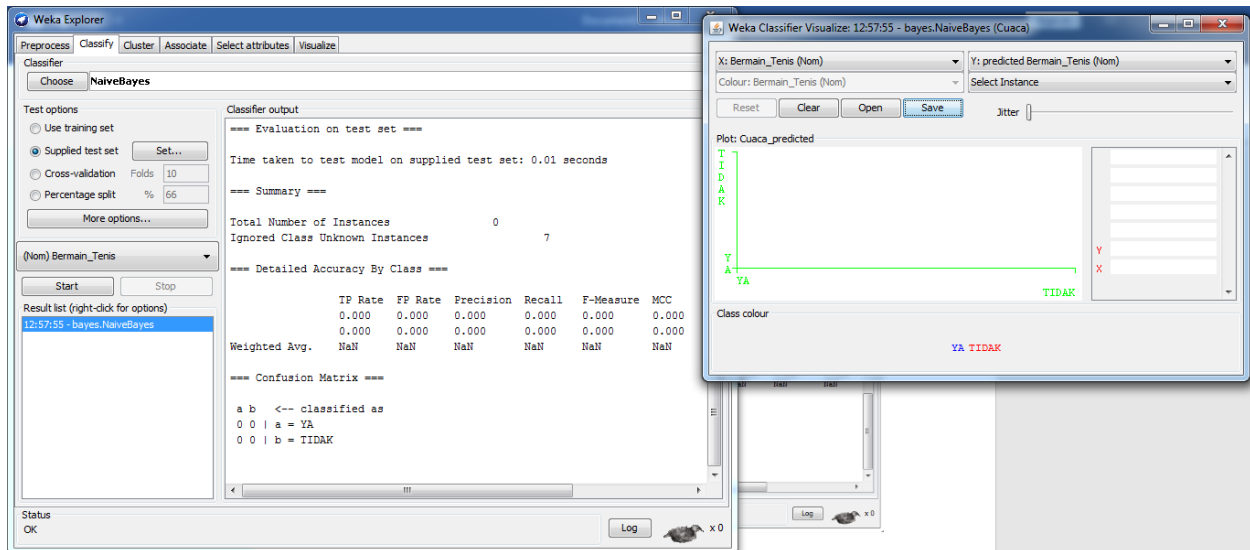
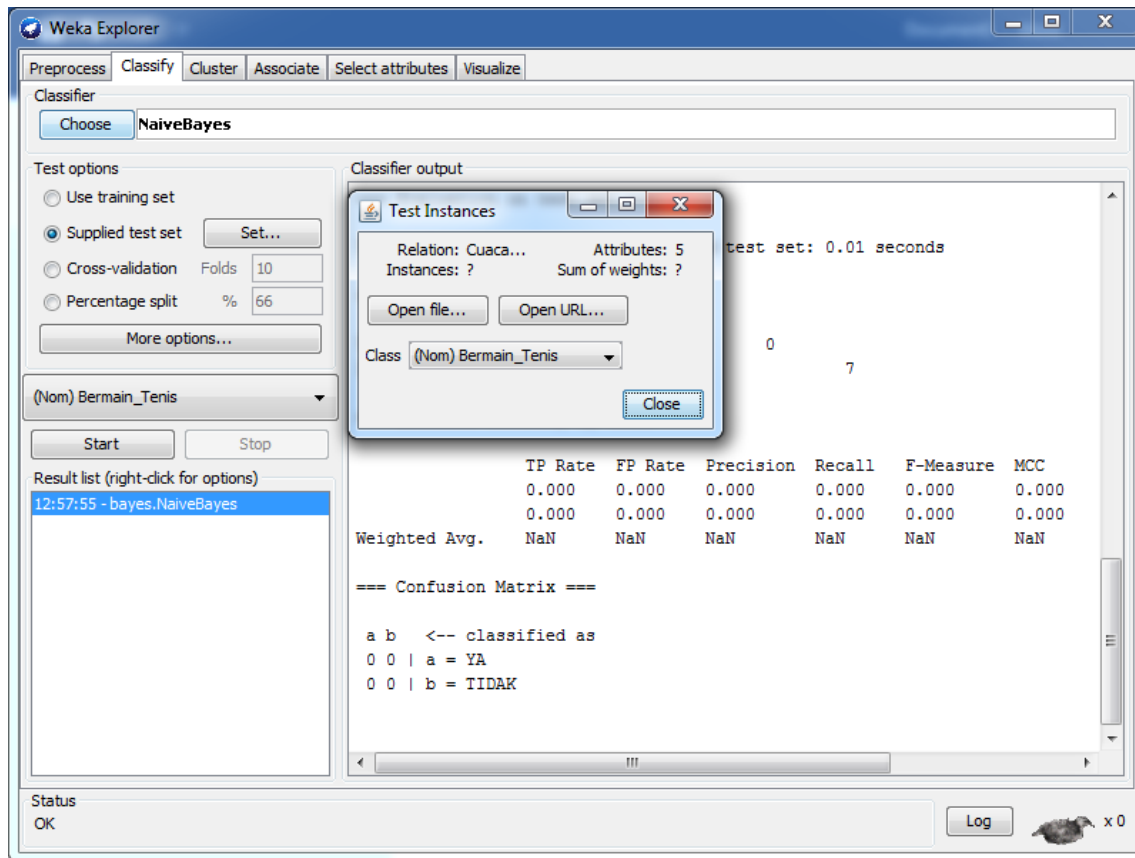


```
1 relation CuacaTesting
2
3 @attribute Cuaca {Cerah, Mendung, Hujan}
4 @attribute Suhu real
5 @attribute Kelembaban_Udara real
6 @attribute Berangin {YA, TIDAK}
7 @attribute Bermain_Tenis {YA, TIDAK}
8
9 @data
10 Cerah,75,65,TIDAK,?
11 Cerah,80,68,YA,?
12 Cerah,83,87,YA,?
13 Mendung,70,96,TIDAK,?
14 Mendung,68,81,TIDAK,?
15 Hujan,65,75,YA,?
16 Hujan,64,85,YA,?
```









Weka GUI Chooser

Program Visualization Tools Help

WEKA

Applications

Explorer

Help

CuacaTesting.arff - Visual Studio Code

Welcome

Cuaca.arff

CuacaTesting.arff

C: > Users > LABSI-18 > Documents > Modul ke 7 > CuacaTesting.arff

1 @relation CuacaTesting

ARFF-Viewer - C:\Users\LABSI-18\Documents\Modul ke 7\HasilPrediksi.arff

File Edit View

HasilPrediksi.arff

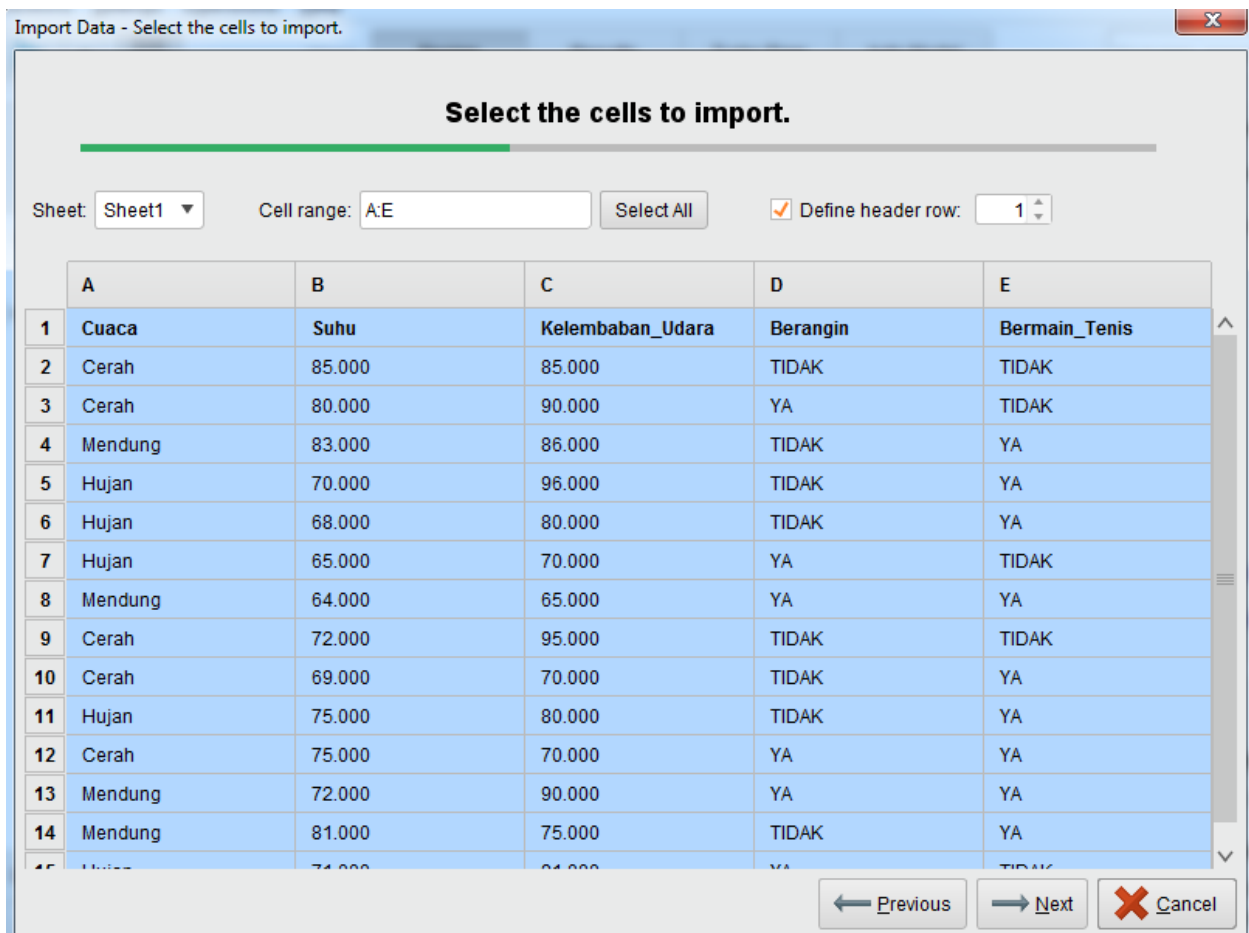
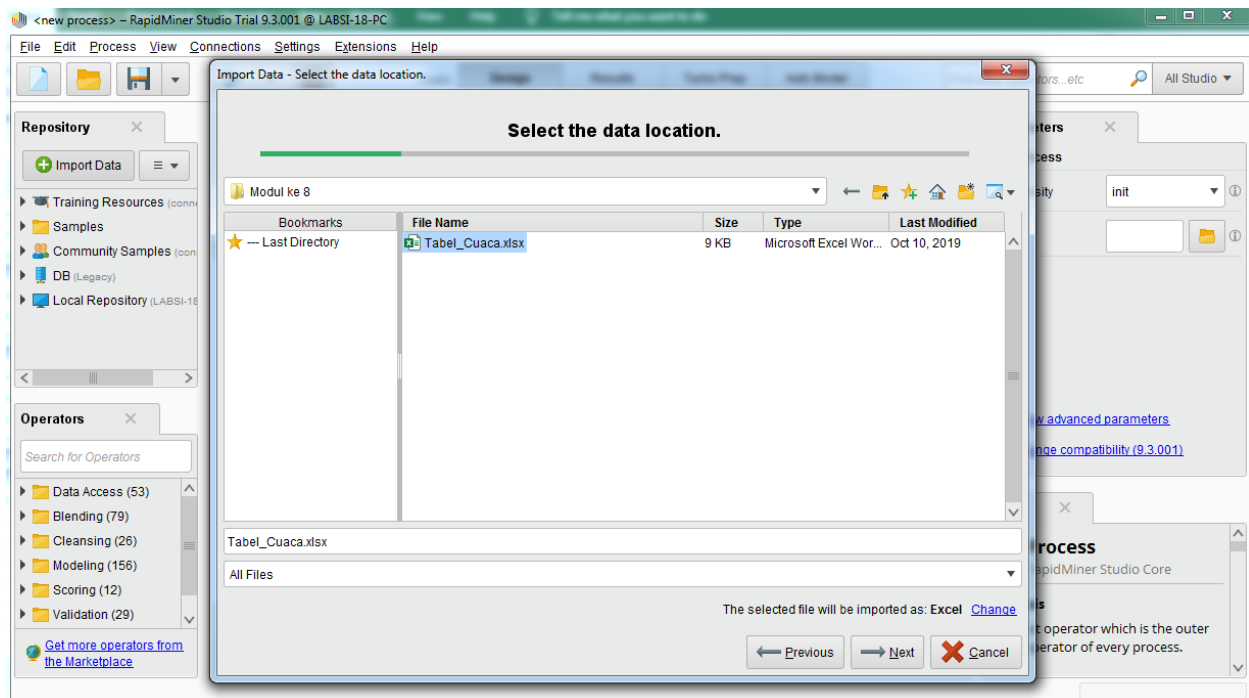
Relation: Cuaca_predicted

No.	1: Cuaca Nominal	2: Suhu Numeric	3: Kelembaban_Udara Numeric	4: Berangin Nominal	5: prediction margin Numeric	6: predicted Bermain_Tenis Nominal	7: Bermain_Tenis Nominal
1	Cerah	75.0	65.0	TIDAK	0.762765	YA	
2	Cerah	80.0	68.0	YA	0.087878	YA	
3	Cerah	83.0	87.0	YA	-0.676866	TIDAK	
4	Mendung	70.0	96.0	TIDAK	0.628523	YA	
5	Mendung	68.0	81.0	TIDAK	0.833996	YA	
6	Hujan	65.0	75.0	YA	0.253733	YA	
7	Hujan	64.0	85.0	YA	-0.160143	TIDAK	

8.4.2. Implementasi Naïve Bayes dengan RapidMiner

	A	B	C	D	E
1	Cuaca	Suhu	Kelembaban_Udara	Berangin	Bermain_Tenis
2	Cerah	85	85	TIDAK	TIDAK
3	Cerah	80	90	YA	TIDAK
4	Mendung	83	86	TIDAK	YA
5	Hujan	70	96	TIDAK	YA
6	Hujan	68	80	TIDAK	YA
7	Hujan	65	70	YA	TIDAK
8	Mendung	64	65	YA	YA
9	Cerah	72	95	TIDAK	TIDAK
10	Cerah	69	70	TIDAK	YA
11	Hujan	75	80	TIDAK	YA
12	Cerah	75	70	YA	YA
13	Mendung	72	90	YA	YA
14	Mendung	81	75	TIDAK	YA
15	Hujan	71	91	YA	TIDAK

	A	B	C	D
1	Cuaca	Suhu	Kelembaban_Udara	Berangin
2	Cerah	75	65	TIDAK
3	Cerah	80	68	YA
4	Cerah	83	87	YA
5	Mendung	70	96	TIDAK
6	Mendung	68	81	TIDAK
7	Hujan	65	75	YA
8	Hujan	64	85	YA



Format your columns.

☐ Replace errors with missing values ⓘ

	Cuaca <i>polynomial</i>	Suhu <i>integer</i>	Kelembaban_U... <i>integer</i>	Berangin <i>polynomial</i>	Bermain_Tenis <i>polynomial</i>
1	Cerah	85	85	TIDAK	TIDAK
2	Cerah	80	90	YA	TIDAK
3	Mendung	83	86	TIDAK	YA
4	Hujan	70	96	TIDAK	YA
5	Hujan	68	80	TIDAK	YA
6	Hujan	65	70	YA	TIDAK
7	Mendung	64	65	YA	YA
8	Cerah	72	95	TIDAK	TIDAK
9	Cerah	69	70	TIDAK	YA
10	Hujan	75	80	TIDAK	YA
11	Cerah	75	70	YA	YA
12	Mendung	72	90	YA	YA
13	Mendunn	81	75	TIDAK	YA

✓ no problems.

← Previous

→ Next


✗ Cancel

Format your columns.



☐ Replace errors with missing values ⓘ

	Cuaca <i>polynomial</i>	Suhu <i>integer</i>	Kelembaban_U... <i>integer</i>	Berangin <i>polynomial</i>	Bermain_Tenis <i>binominal</i>
1	Cerah				
2	Cerah				
3	Mendung				
4	Hujan				
5	Hujan				
6	Hujan				
7	Mendung				
8	Cerah				
9	Cerah	69	70	TIDAK	YA
10	Hujan	75	80	TIDAK	YA
11	Cerah	75	70	YA	YA
12	Mendung	72	90	YA	YA
13	Mendung	81	75	TIDAK	YA

Change role

 Please enter the new role:

label

 OK  Cancel

✓ no problems.

← Previous

→ Next

✕ Cancel



Where to store the data?

▼ Local Repository (LABSI-18)

▶ Connections (LABSI-18)

▶ data (LABSI-18)

▶ processes (LABSI-18)

Name DataCuaca_Training

Location //Local Repository/DataCuaca_Training

← Previous

Finish

Cancel

Format your columns.

☐ Replace errors with missing values ⓘ

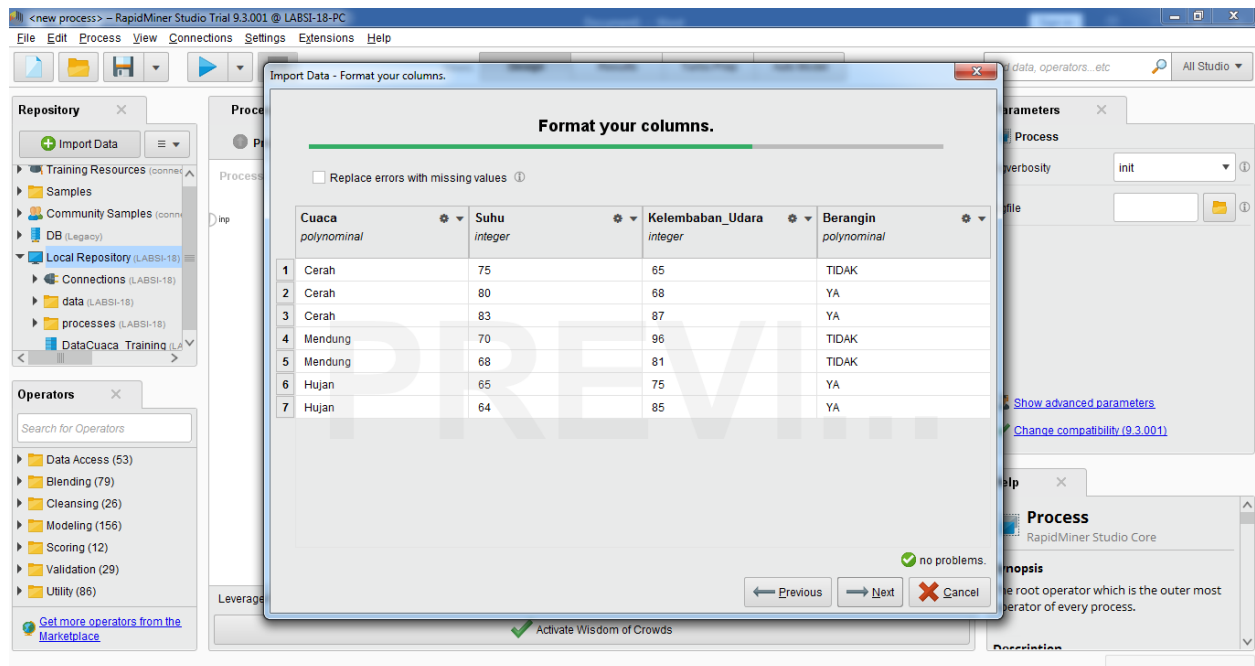
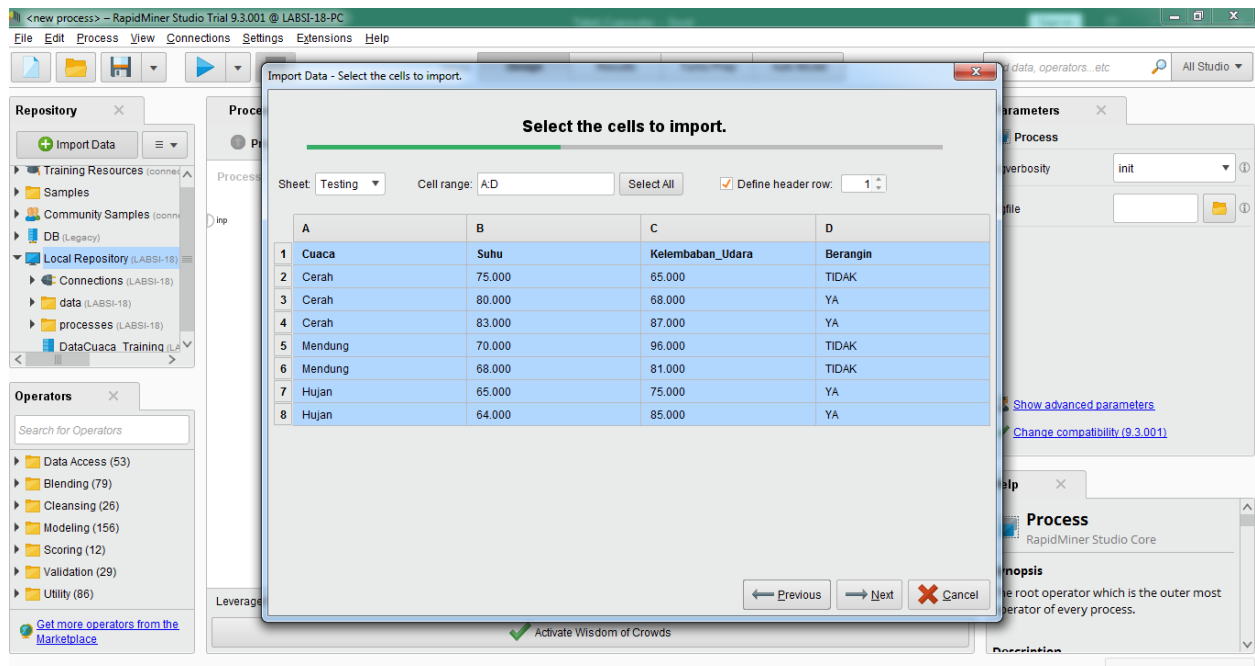
	Cuaca <i>polynomial</i> ⚙️ ▼	Suhu <i>integer</i> ⚙️ ▼	Kelembaban_Udara <i>integer</i> ⚙️ ▼	Berangin <i>polynomial</i> ⚙️ ▼
1	Cerah	75	65	TIDAK
2	Cerah	80	68	YA
3	Cerah	83	87	YA
4	Mendung	70	96	TIDAK
5	Mendung	68	81	TIDAK
6	Hujan	65	75	YA
7	Hujan	64	85	YA

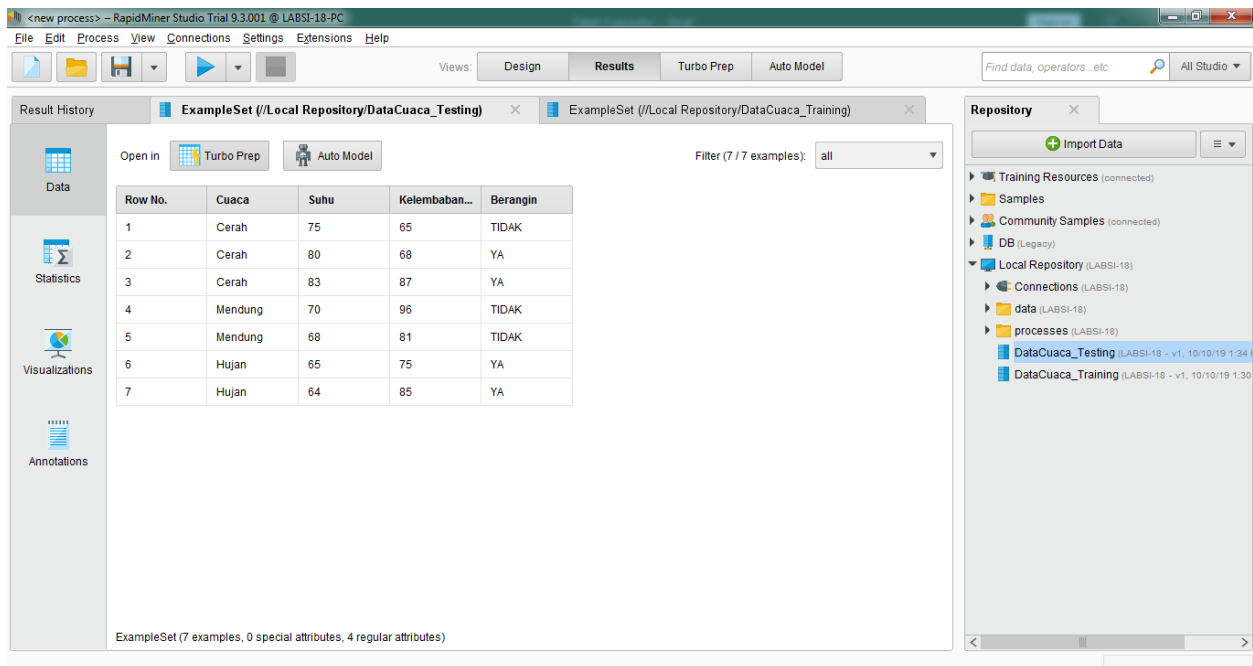
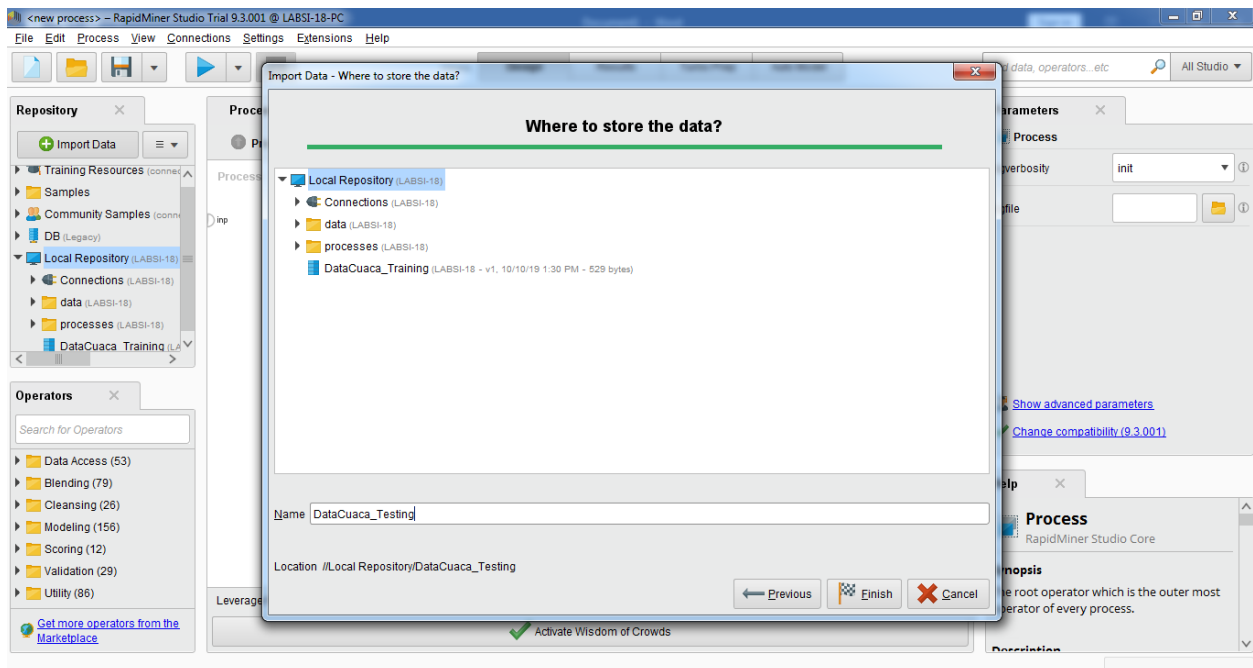
✔️ no problems.

⬅️ Previous

➡️ Next

❌ Cancel





<new process*> - RapidMiner Studio Trial 9.3.001 @ LABSI-18-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (/Local Repository/DataCuaca_Testing) ExampleSet (/Local Repository/DataCuaca_Training)

Result History ExampleSet (Apply Model)

Open in Turbo Prep Auto Model Filter (7 / 7 examples): all

Row No.	prediction(B...	confidence(...	confidence(...	Cuaca	Suhu	Kelembaban...	Berangin
1	YA	0.154	0.846	Cerah	75	65	TIDAK
2	YA	0.498	0.502	Cerah	80	68	YA
3	TIDAK	0.856	0.144	Cerah	83	87	YA
4	YA	0.019	0.981	Mendung	70	96	TIDAK
5	YA	0.007	0.993	Mendung	68	81	TIDAK
6	YA	0.371	0.629	Hujan	65	75	YA
7	TIDAK	0.568	0.432	Hujan	64	85	YA

ExampleSet (7 examples, 3 special attributes, 4 regular attributes)

Repository

- Import Data
- Training Resources (connected)
- Samples
- Community Samples (connected)
- DB (Legacy)
- Local Repository (LABSI-18)
 - Connections (LABSI-18)
 - data (LABSI-18)
 - processes (LABSI-18)
 - DataCuaca_Testing (LABSI-18 - v1, 10/10/19 1:34)
 - DataCuaca_Training (LABSI-18 - v1, 10/10/19 1:30)

<new process*> - RapidMiner Studio Trial 9.3.001 @ LABSI-18-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (/Local Repository/DataCuaca_Testing) ExampleSet (/Local Repository/DataCuaca_Training)

Result History ExampleSet (Apply Model)

Name Type Missing Statistics Filter (7 / 7 attributes): Search for Attributes

Name	Type	Missing	Statistics	Filter (7 / 7 attributes):
prediction(Bermain_Tenis)	Binominal	0	Least TIDAK (2) Most YA (5)	Values YA (5)
confidence(TIDAK)	Real	0	Min 0.007 Max 0.856	Average 0.353
confidence(YA)	Real	0	Min 0.144 Max 0.993	Average 0.647
Cuaca	Polynomial	0	Least Mendung (2) Most Cerah (3)	Values Cerah (3)
Suhu	Integer	0	Min 64 Max 83	Average 72.143
Kelembaban_Udara	Integer	0	Min 65 Max 96	Average 79.571
Berangin	Polynomial	0	Least TIDAK (3) Most YA (4)	Values YA (4)

Showing attributes 1 - 7 Examples: 7 Special Attributes: 3 Regular Attributes: 4

Repository

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 - DataCuaca_Training (LABSI-18 - v1, 10/10/19 1:30)

<new process*> - RapidMiner Studio Trial 9.3.001 @ LABSI-18-PC

File Edit Process View Connections Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

ExampleSet (/Local Repository/DataCuaca_Testing)

ExampleSet (/Local Repository/DataCuaca_Training)

Result History

ExampleSet (Apply Model)

Data

Statistics

Visualizations

Annotations

Name	Type	Missing	Statistics	Filter (7 / 7 attributes):	Search for Attributes
1_Tenis)	Binominal	0	Least TIDAK (2)	Most YA (5)	Values YA (5), TIDAK (2)
	Real	0	Min 0.007	Max 0.856	Average 0.353
	Real	0	Min 0.144	Max 0.993	Average 0.647
	Polynomial	0	Least Mendung (2)	Most Cerah (3)	Values Cerah (3), Hujan (2), ... [1 more]
	Integer	0	Min 64	Max 83	Average 72.143
	Integer	0	Min 65	Max 96	Average 79.571
	Polynomial	0	Least TIDAK (3)	Most YA (4)	Values YA (4), TIDAK (3)

Showing attributes 1 - 7

Examples: 7 Special Attributes: 3 Regular Attributes: 4

Repository

Import Data

Training Resources (connected)

Samples

Community Samples (connected)

DB (Legacy)

Local Repository (LABSI-18)

Connections (LABSI-18)

data (LABSI-18)

processes (LABSI-18)

DataCuaca_Testing (LABSI-18 - v1, 10/10/19 1:34)

DataCuaca_Training (LABSI-18 - v1, 10/10/19 1:30)